## WHAT IS CLAIMED IS:

- 1. A solder joint structure comprising:
- a patterned conductor containing copper;
- 5 a solder base section comprising a Sn-Ag-Cu solder material; and
  - a solder joint section comprising a Sn-Zn solder material, the solder joint section being disposed on the solder base section,
- wherein the solder joint section connects with a terminal of an electronic component by fusion bonding.
- The solder joint structure according to claim 1, wherein the Sn-Ag-Cu solder material contains at least one
  additive selected from the group consisting of antimony, nickel, phosphorus, germanium, and gallium.
  - 3. A solder joint structure comprising:
  - a patterned conductor containing copper;
- a solder base section comprising a Sn-Ag solder material containing at least one additive selected from the group consisting of antimony, nickel, phosphorus, germanium, gallium, aluminum, cobalt, chromium, iron, manganese, palladium, and titanium; and
- a solder joint section comprising a Sn-Zn solder material, the solder joint section being disposed on the solder base section.

wherein the solder joint section connects with a

terminal of an electronic component by fusion bonding. A method for soldering an electronic component, the method comprising: (a) forming a first solder land, which is a patterned 5 conductor, containing copper and a second solder land, the first solder land and the second solder land being formed on the same surface of a circuit board; (b) forming a first solder section on each of the first solder land and the second solder land, the first solder 10 section comprising a Sn-Ag-Cu solder material; (c) mounting a terminal of an electronic component chip on the first solder land; (d) heating the first solder land and the terminal to 15 connect each other by fusion bonding; (e) forming a second solder section on the first solder section disposed on the second solder land, the second solder section comprising a Sn-Zn solder material; (f) inserting a lead terminal of another electronic 20 component into a terminal hole formed near the second solder land; and (q) heating the second solder section and the lead terminal at a temperature lower than the temperature in step (d) so as to connect the lead terminal to the second solder section by fusion bonding. 25

5. A method for soldering an electronic component, the method comprising:

(a) forming a first solder land, which is a patterned conductor, containing copper and a second solder land, the first solder land and the second solder land being formed on the same surface of a circuit board: (b) forming a first solder section on each of the first 5 solder land and the second solder land, the first solder section comprising the additive-containing Sn-Ag-Cu solder material of claim 2; (c) mounting a terminal of an electronic component chip on the first solder land: (d) heating the first solder land and the terminal to connect each other by fusion bonding; (e) forming a second solder section on the first solder section disposed on the second solder land, the second solder 15 section comprising a Sn-Zn solder material; (f) inserting a lead terminal of another electronic component into a terminal hole formed near the second solder land; and (g) heating the second solder section and the lead 20 terminal at a temperature lower than the temperature in step (d) so as to connect the lead terminal to the second solder section by fusion bonding. A method for soldering an electronic component, the 25 method comprising: (a) forming a first solder land, which is a patterned conductor, containing copper and a second solder land, the first solder land and the second solder land being formed on - 15 -

the same surface of a circuit board;

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- (b) forming a first solder section on each of the first solder land and the second solder land, the first solder section comprising the additive-containing Sn-Ag solder 5 material of claim 3;
  - (c) mounting a terminal of an electronic component chip on the first solder land;
  - (d) heating the first solder land and the terminal to connect each other by fusion bonding;
- (e) forming a second solder section on the first solder section disposed on the second solder land, the second solder section comprising a Sn-Zn solder material;
  - (f) inserting a lead terminal of another electronic component into a terminal hole formed near the second solder land; and
  - (g) heating the second solder section and the lead terminal at a temperature lower than the temperature in step.